

## From Principal's Desk

We are glad to bid farewell to 2020 - a year that took away so much that was precious to us. Struggling with many woes, we have raced the last few days of December, hoping that the beginning of another year will bring with it hope and peace. We are counting on the vaccine, also optimistic that the disease will reduce its ferocity, and the generosity of the universe will allow us the strength to continue our journeys.

The year also introduced us to online teaching learning process. Honorable Principal Secretary, Higher & Technical Education Department (Govt. of Gujarat, Smt. Anju Sharma madam took extra care and made sure that each and every faculty utilize the online platform effectively. For that special training programmes were organized by CTE (Commissionerate of Technical Education) and as a result teachers have been successfully engaging students toward learning. It has been observed that many a time more than hundred percent teaching learning engagement has taken place.

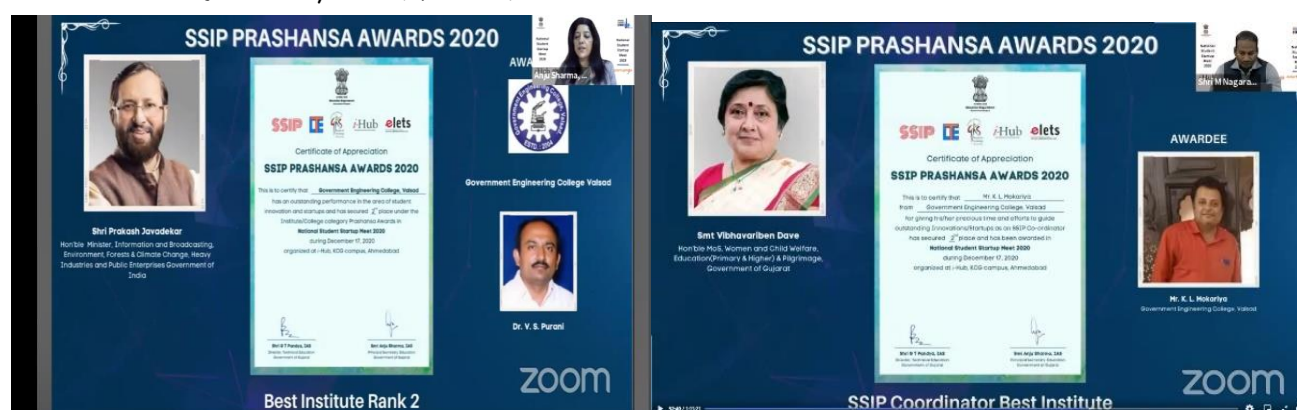
I am happy to share that our college stands out among technical institutes of Gujarat, securing second rank and thereby achieving the *prashansha award* for National start up Meet-2020 organised by i-hub of Education department, Gujarat.

We hope the New Year is one that brings us the healing touch we need and we continue to work hard and achieve new heights.

Dr. V.S.Purani  
31/12/2020

## SSIP Prashansha award

SSIP has created wide range of incentives for innovators and start-ups. Institutes across the states are taking concrete measures to implement the policy mandate. Education department wishes to felicitate the best performing innovators, start-ups, Institutions, mentors, enablers and other contributors annually to motivate them to perform better. Keeping this in mind, Education department Gujarat State initiative i-Hub had organized National Start Up meet 2020. Principal Secretary, H & TE Department, Smt. Anju Sharma had declared Prashansha Award for colleges. Among all the higher education institutes and technical education institutes, Government Engineering College, Valsad achieved second rank in the best Institute category. On 17th December 2020 Principal sir Dr V S Purani GEC Valsad received the Prashansha Award for the college and SSIP Coordinator Dr. K L Mokariya received the best SSIP Coordinator 2nd rank in state. The award was given by the Chief guest Shree Prakash Javdekar, union Minister.



Screenshot of Prin. Dr. V.S.Purani receiving award Screenshot of Prof. Mokriya receiving award

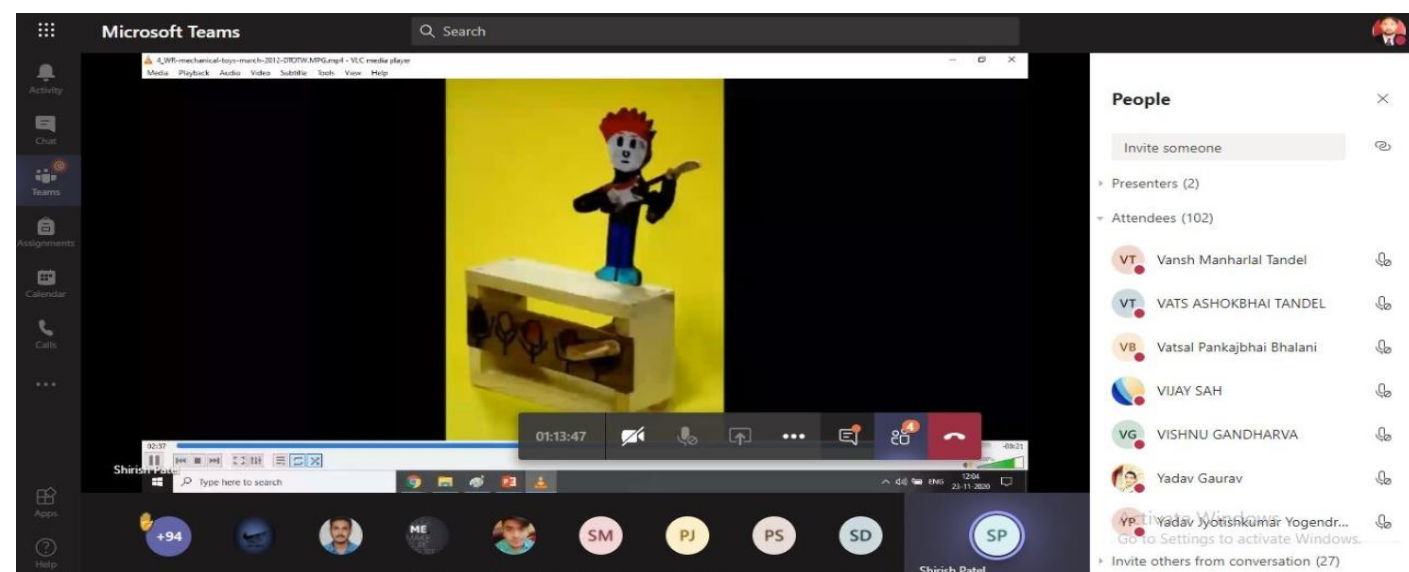
Geologically Government Engineering College, Valsad is situated in the tribal area and having zero industry. It does not contain technical branches like computer and less meritorious students. In this situation, the Prashansha award has motivated students and faculties equally.

## SSIP Toy Innovation Challenge: Mind to Market

Honorable Prime Minister Shri Narendra Modi urged start-ups and entrepreneurs to develop innovative "toys and games, for India and of India" to meet domestic demand and increase its share in the global toy business, estimated of 7 lakh crore rupees. He also appealed people to develop applications which could replace the ones currently in vogue and are controlled by foreign companies. To create indigenous technology in Toy Industry and as a part of Atmanirbhar Bharati-Hub had launched "Mind to Market (M2M) innovation challenge in order to bring awareness toward Toy Industry.

## Faculty Training

Majority faculty members of the college successfully completed **Comprehensive Online Intellectual Property Rights** training from 6th July to 14th September 2020 organized by i-hub Gujarat and **E-content development course** organized by KCG, Education department, Govt. of Gujarat. Prof. Neha Patel, Prof. Dhaval T. Barot, Prof. Soham H. Mistry of Civil Engineering Department, Prof. Khyati K. Modi, Prof. Monali N. Chaudhari, Prof. Meera K. Kunvarani of Environmental Engineering Department, Prof. D. N. Tandel of electrical Engineering Department and Prof. J. M. Panchal, Dr. M. K. Mistry of Mechanical engineering department successfully received training pertaining to their specialized subject and obtained course certificate from reputed organizations like GUJCOST, IIT Delhi, AICTE and NITTTR Bhopal



Screenshot of Online M2M Toy Challenge Competition

Mechanical Engineering Department of GEC Valsad organized awareness programme using online platform in the month of November -2020 for the same. On 23rd November 2020 TOY CHALLENGE competition was organised. Around 100 students participated in it. Prof. Shirish K. Patel provided in-depth guidance to the students to make innovative toys. On 25th November 2020, detailed discussion was carried out among students and faculties and as a result 55 innovative toy ideas were finalised. Total 31 numbers of Mechanical student teams registered themselves in this innovative Toy Challenge under i-hub, A Government of Gujarat initiative.

### VLAB achievements

Virtual Lab is the initiative of the IIT Mumbai. Since 2018, GEC, Valsad has taken up this opportunity as the nodal centre and made this facility available to the students. Due to COVID-19 year 2020 can be considered exemplary as our students explored the VLAB facility to the fullest. There are approximately 60 practical available on the portal and they are repeatedly performed by 1800 students of GECV which resulted in almost 11,000 usage registration in the year 2020 and 26,500 usage registration since 2018. Our college ranked 19th out of 101 VLAB nodal centers across all over India and ranked 5th among all Government engineering and polytechnic colleges of the state in terms of usage.

### Mukhyamantri Apprenticeship Yojna (MAY)

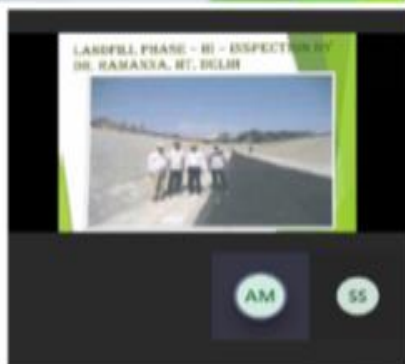
With the financial support and the stipend by the Govt. of Gujarat the MukhyamantriApprenticeshipYojna aims to enroll prospective youth as apprentice to various local industries, organizations and academic institutions. Local administration has given responsibility to GEC Valsad to outreach the maximum industries to be the medium to connect the needful apprentice with the suitable academia and industries. Team GECV has taken up this challenge of career building initiative of the Government and accepted it as a part of scheduled work to regularly coordinate with different stakeholders. As a result, faculties of GECV have made more than 250 visits in last three months to nearby industries and educational institutes. Due to Concurrent efforts of faculties 110 contracts have been identified and eligible candidate has successfully been enrolled as aprantee on the portal. It is believed that across the state, contribution of GECV is highest among all academic institutes of the state.

### Online MOOC platform: edX

[edX.org](https://edX.org) is a massive open online course (MOOC) provider and non-profit founded by Harvard and MIT to remove barriers to education. The site offers an impressive array of courses from top universities and institutions of world for those seeking to change industries, grow in their careers, or explore new interests and hobbies. Prof. S. T. Patel, T & P Cell has acquired edX2500 license-subscription for all students and faculty of our institute at free of cost with validity till August 2021. All the students and teachers have been motivated to take benefit of this edX initiative which offers world class online training and provides certificate from renowned universities such as MIT, Harvard, TU Delft etc. and organizations such as IBM, Linux etc.

### Virtual Industrial Visits organized by Chemical Engineering Department

On 5<sup>th</sup> November 2020 Chemical Engineering Department organized industrial visit to BEIL Infrastructure Limited, Ankleshwar. Event was successfully coordinated by Dr. N.M Patel, Prof A. R. Magodara & Dr. S. K. Shrivastava. Total 201 students paid visit and they were given demonstration on waste management system. Along with this, demonstration was also given on the working & operations of various instruments involved in the waste management system to understand the role and importance of Chemical Engineer in the waste management plant.



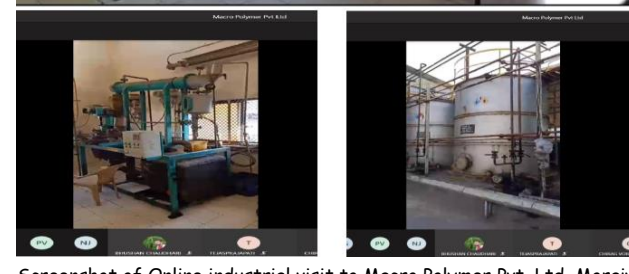
Screenshot of Online industrial visit to BEIL Infrastructure Limited, Ankleshwar

Dr N. M. Patel, Prof A. R. Magodara & Dr. S. K. Shrivastava from Chemical Engineering department organized another industrial visit on October 29, 2020 at Omnibrx Biotechnologies private limited. Total 119 students were explained upstream bio-processing solutions. Demonstration was given on the working & operations of bio-reactors involved in the bioprocessing



Screenshot of Online industrial visit to Omnibrx Biotechnologies private Ltd.

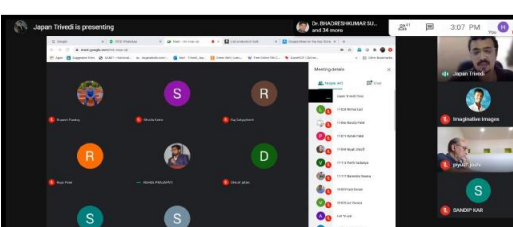
With very specific objectives Dr N. M. Patel, Prof A. R. Magodara & Dr. S. K. Shrivastava organized industrial visit to Macro Polymer Pvt. Ltd, Moraiya Ahmadabad on 26<sup>th</sup> November 2020. Total 176 students of Chemical Engineering department paid visit and learnt some important lessons. One of the objectives of this visit was to demonstrate Polymer resin production and the working & operations of various chemical reactors involved in the process. Another objective was to demonstrate and explain the R & D section of the industry and importance and working of R & D instruments.



Screenshot of Online industrial visit to Macro Polymer Pvt. Ltd, Moraiya Ahmadabad

### IIChe Student Chapter

Two expert talks were organized for the student of Chemical Engineering Department under IIChe banner. First talk was on "Start Up and Entrepreneurship development for Chemical Engineers" by an International Motivational speaker Mr. Rohit Dave on October 13th 2020. Another talk was delivered by a well-known author, trainer and coach Mr. Japan Trivedi on the topic "Transformation in field & Life by 360 Improvement on 24th Oct 2020.



### Student's Achievements



Patel Need Pankjbhai of Chemical Engg. Department (Enrolment No. 160190105074) secured GOLD Medal (1st position CGPA wise) with 9.83 CGPA in Chemical Branch of GTU affiliated all colleges after declaration of results of BE Semester 8 online examination phase - I & II

Dubey Harsh, of Electrical Engg. Department final year student (Enrolment No. 170190109008) successfully completed 15 days Arduino Master Class training at PantechProlabs India Pvt. Ltd.

Gupta Sunnykumar Subhashprasad of Chemical Engg. Department 6<sup>th</sup> semester (Enrolment No. 180190105024) participated in NPTEL Certificate course for Mechanical Operation and secured (elite + sliver) grade.

Patel Sakshi Chetankumar, final year student of Environment Engg. (1701901131101) Department successfully completed two days Online Training Program on "Basics of Air Quality Monitoring and Management" organized by CSIRNEERI, Nagpur on October 6 - 7, 2020.

## Faculty Achievements

Prof. K L Mokariya, Electrical Engineering department received doctorate degree through online convocation program on December 17, 2020.

Prof.H. N. Patel, Mechanical engineering department has received financial assistance up to Rs.25, 000/- as his project on *Indian Patent Filing* is selected by GTU SSIP Screening Committee.

Dr. N. M. Patel, Chemical engineering department filled final Indian patent on *Refrigerant for vacuum based heat pump cycle* on November 24, 2020.

Prof.H. A. Vaidya and Prof.H. N. Lakdawala, Mechanical engineering department served as reviewers for Multidisciplinary International Research Journal of Gujarat Technological University, Volume 2 Issue 2 (July 2020) and Volume 3 issue 1 (January2021).

Prof. Ashish D. Modi and Prof. Rahul V. Prajapati Chemical engineering department were invited by Engineer association Vapi as a Guest of honor on December 29, 2020 to visit Chemispeciality Industry.

Prof. D. N. Patel, Mechanical engineering department, Dr. N. M. Patel, Dr. B. R. Sudani, Dr. Sanjay Kumar Srivastava, Chemical Engineering department, Dr. K L Mokariya, Prof. D. N. Tandel, and Prof. H. S. Wani, Electrical Engineering department delivered an expert lecture in various online webinars at different institutes.

## SSIP screening

Three layer screening process is the strength of SSIP. Intensive involvement of industrial experts and their recommendation finalizes the selection and decides the funding support to the project.

SSIP cell of the college is determined to promote and support innovative start-ups which ultimately leads the young brains to become "Atmanirbhar". Students have been motivated to be entrepreneur rather than job seeker. SSIP cell of the college entertains project proposal throughout the year. Any student can sent his/her proposal to the respective department which is scrutinized and forwarded to the SSIP cell. The SSIP cell after analyzing decides its potential for further development.If the institute committee finds particular project suitable for development as PoC, the amount will be sectioned as per the norms of SSIP immediately after the scrutiny. With this newly adopted policy, the various departments arranged scrutiny for total 12 new SSIP projects proposals from the total received applications. The cell had arranged two different scrutiny on 05-11-2020 and 06-11-2020 for the new as well as revised SSIP proposals. After scrutinizing 12 proposals, 3 have been shortlisted for mentoring and provided grant of Rs.77, 670/-



Screenshot of online presentation by students in front of screening committee

## Conferences & Research Paper by faculties

Prof. R. C. Malan, Applied Science and Humanities department presented a paper at an International conference on *Study of liquid K1-XRbX alloy through variation approach* organized by Centre of Professional development, R. K. Uni. Rajkot on November27, 2020.

Prof. A. R. Patel, Mechanical engineering department co-authored and published a paper titled Efficacy of organic and inorganic Nano fluid on thermal performance of solar water heating system in a peer reviewed journal (Elsevier Publication). <https://doi.org/10.1016/j.clet.2020.100020>

Prof. H. N. Lakdawala, Mechanical engineering department presented a paper at an International Conference on Performance Assessment of Pelton Turbine with Traditional and Novel Hooped Runner by Experimental Investigation at IIT,Bombay on December 11, 2020 which is published by Springer, Singapore

Prof. D. N. Tandel, Electrical Engineering presented research paper on Development of Embedded Linux-based enhanced voice assistance for visually challenged people on W-Io Online Conference organized by Electronics and Communication Dept. L. D. College of Engg. Ahmedabad in association with IETE, Ahmedabad Centre on September 5,2020

Prof. D.J.Patel, Civil Engineering department co-authored and co-published two research papers titled (1) Assessing the potential health hazards of workers of demolition sector (2) A science mapping approach based review of construction and demolition waste management. These papers have been published by ASCE Library, Arizona, USA in November, 2020.



Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

"Putting young minds at work and Inspiring social innovation".

Under the aegis of UBA, GEC, Valsad has identified 5 villages namely Atar, Bhagod, Chichwada, Kevada and Shankar Talav. The student team identifies problems persisting in the villages and proposes solutions pertaining to the fields including but not limited to sanitation & cleanliness, education, skill development, agriculture, social. The team promotes alternative and eco-friendly methods of farming like organic farming, alternative energy sources like biogas, solar in the villages. It also promotes various govt. schemes in the above-mentioned villages. There is a need to synergize the efforts of Academia- Government-Industries & Society in every area to orchestrate ground level models for technological, social as well as administrative betterment of rural India.

To know basic and fundamental need of the villages and to find out if the villagers are aware about government schemes, UBA team of our college did survey of houses of the mentioned villages.



Survey of Atar village by Prof. Monali Chaudhari



Chichwada and Kevada village survey by Prof. P.J.Patel and prof. Anjali Prajapati

## Preparation for Mega placement Fair

Mega Placement fair is the capacity building project of Department of Higher and Technical Education, Government of Gujarat and Knowledge Consortium of Gujarat. Once again Government recognized the ability of GECV to coordinate entire south Gujarat and gave responsibility to organize Mega Placement Fair to Principal Dr. V.S.Purani (Zonal officer) and with the support of industry.

Campus placement at a few institutions is a routine. Though Government and Grant-in-Aid institutions are the first choice of meritorious students across the state, the students of such institutes are not getting substantial opportunities for the campus placement. Teachers of Government and GIA colleges have taken the responsibility to make students placed at suitable industries and organizations through campus placement fair. In support to the announcement of the Mega Placement Fair by the Education Department to be held in every district, teachers of respective colleges are rigorously interacting with the prospective industries, organizations and obtaining the vacancies. This Mega Placement Fair is organized in four different zones in the state and Education Dept. Govt. of Gujarat has given responsibility of the Mega Placement Fair of south Gujarat zone (seven districts) to the GEC Valsad. The principal of the institution is the zonal coordinator for this camp. With the proactive planning and strategic management, team GECV has been successfully coordinating all seven districts. To anticipate the best outcome of the forthcoming placement camp this will in turn fulfill the dream of youth to get job. Teachers of GECV feels proud and privilege to be part of this noble initiative of Education Department and to work beyond their academic responsibility which promises better career for their students. Approximately 15000 students from 14 colleges of south Gujarat zone -4 covering six districts from Bharuch to Valsad are expected to participate in this mega Placement fair. Till date around 8000 vacancies have been obtained.

## Best out of waste: Student's creativity



MS.ApexaBhatiya,  
Environmental Engg. Dept.  
Enrolment no; 190190113003



Mr.Pratik Savani  
Environmental Engg. Dept  
Enrolment no. 170190113047



Mr. Rishi Patel  
Environmental Engg. Dept  
Enrolment no. 180190113038



Ms. YashashriPakhale  
Environmental Engg. Dept  
Enrolment no:190190113031



HirparaJemikaPrakashbhai  
Environmental Engg. Dept  
Enrolment No. 170190113010

## Poetic Expression

### सुनहराहिन्दुस्तान

हमसुनहराबनाएंगेहिन्दुस्तान।

नाकमेंकीचड़किबुंदेभरकैसेआएगीखुशबुफूलोंकीजनाब,  
जबसोचहिछोटीहोतमहलोंमेंभीकैसेआएंगेबड़े-बड़ेख्वाब !

जहांआजभीलोगअपनोंकेहीटांगखिचतेहै,  
वहाँऊनवीरोंकेआत्माभीचिंखतेहै,  
क्यामिलाआजादीदिलाकरजबएकनईआजादसोचनहींमिली,जिन्हेंदिलाईआ  
जादीउन्हेंउन्नतसोचनहींमिली।  
मैंभीमानताहुबदलरहाहैंइंडिया,  
परक्यूपिछड़ीसोचकोनहींकुचलरहाहैंइंडिया।

हमलाएंगेएकनईसोचकाउत्थान।(२)  
हमसुनहराबनाएंगेहिन्दुस्तान।

यहांआजभीमराठी,बिहारी,पंजाबीमेंबटतेलोग,  
क्यूआजभीएकदूसरेपरतानेकसतेहैलोग।  
महात्माए, बुद्धए, परगयानहींजातिवाद !  
महावीर,साई,नानकएपरबदलानहींसमाज।

एकदिनमहात्माबनेगाहरनौजवान।(२)  
हमसुनहराबनाएंगेहिन्दुस्तान।

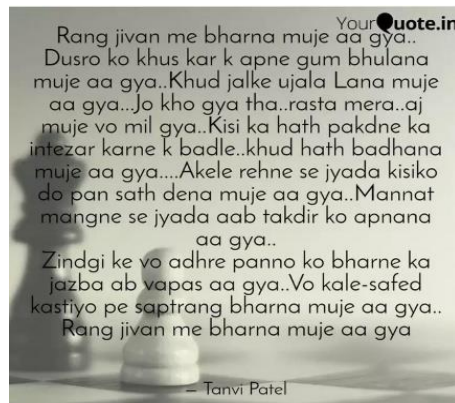
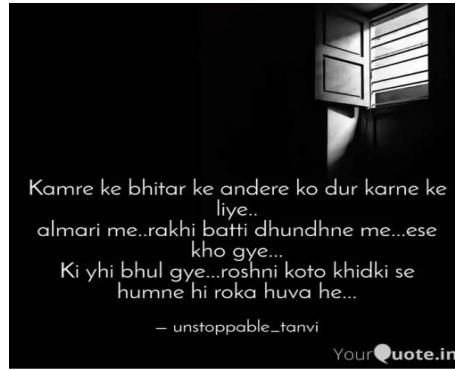
घमंडमेचुरलोगक्योंभुलजातेहै, राम-रहीमजोदिलमेहैवोभीयहीबतातेहै,  
व्यक्तिपैसेनहीं; गुणोंसेनपातेहै।  
अपनीपहचानऐसीबनाओकिजबनिकलोमहात्माजैसेधोतीपे,  
तभीलोगकहेजनाबअंदरआओभलेनालिखाहोतुम्हारानामपैसेकितोपीपे।

दुनियामेंहमअपनीबनाएंगेएकनईपहचान।(२)  
हमसुनहराबनाएंगेहिन्दुस्तान।

आशायहीहैदिलेजहानमें, सपनेसचहोंगेएकदिनसुनहरेहिन्दुस्तानके,  
जहाँदिलोमेंजलेंगेदीपप्यारके।  
नाजातीहोगी, नाअधर्महोगा, होंगेइन्सापकेईमानके  
भाई-चाराकेदीपहमजलाएंगे, स्वर्गसेसुंदरभारतबनाएंगे।

बनेगासचमेंफिरअपनाभारतमहान।(२)  
हमसुनहराबनाएंगेहिन्दुस्तान

By Sujeet Singh  
Electrical Engineering Department  
Enrolment no: 190190109062



Ms.Tanvikumari Patel  
Environmental Engg. Dept,  
Enrolment No. 170190113037

### राहीहैतूमुसाफिरहै

चलतेजानातेराकामहै  
उनगलियोंसेबचकेगुजरना  
वोजराबदनामहै

हरशख्सहैउससेवाबस्ता(वाब  
स्ता : संबंधित,जुड़ाहुआ )  
हरएककाहैउससेराब्ता  
( राब्ता : कलेक्शन, रिश्ता)  
वोहरकिसीकोजानताहै  
खुदातकउसेपहचानताहै।

वहीमस्जिदवहीमालाहै  
वहीकुरानवहीगालाहै  
मेरीजिंदगीउसीकेनामहै  
उसकासाक्षीयह  
मेराकलामहै।।

By Abhaysingh  
Chemical Engg.Department  
Enrolment no:180190105100

### Can we be friends, world?

Can we be friends, world?  
Neither as men nor as women  
Can we be humans impearled?  
Some describing words  
That the world asserts  
A daughter, a wife, a sister,  
A professional and a mother.  
Okay..!

Let 's play a game  
counterpart,  
Find me there a human name,  
so far.

"She is a human",  
And it's a fact  
Ignored by many Trumans.  
Can we be friends, world?  
Neither as men nor as women  
Can we be humans impearled?  
From an innocent to an adult,  
She lives in fear;

Fear of assaults,  
Frightened from her own  
peers,  
Victims of smears.

But,  
Can the world change...  
Can we be friends, world?  
Neither as men nor as women  
Can we be humans impearled?  
We don't want less,  
We don't demand more,  
We want equal.  
This is the change we want,  
This is the change we need;  
I sigh..!!

By JasmeetkaurBassan  
Chemical Engineering  
Department  
Enrolment- 190190105006

### Me and Covid-19

Couple of years back, When I saw the Oscar winner 2011 American film *Contagion*, which talks about the spread of virus transmitted by respiratory droplets and loss of social order. I thought it is just an imagination of the film maker. I had never anticipated that this can ever be a reality. But in 2020 due to Covid-19 pandemic when whole world has come to standstill, we started feeling like a part of same horror film.

Till day deadly corona virus has killed thousands of people and left us helpless. I had never dreamt that we will have to confine ourselves to four walls and will not be able to meet our friends and relatives.

But same pandemic has given me a chance to look at things differently. It has taught me many valuable lessons. I have learnt to handle life with positive mind. There is an end to every nightmare, and this one also will end soon.

By Dev Bhandari  
Mechanical engineering Department, Enrolment No:180193119004

### Faculty Joined

Name of Faculty	Department	Date of Joining
Prof. P. J. Patel	Mechanical Engg.	13/11/2020
Prof. R. J. Varotariya	Mechanical Engg.	26/11/2020
Prof. B.M.Vadher	Civil Engg.	06/10/2020
Dr.P.B. Desai	Applied Sci. & Humanities	20/11/2020

### Conceptualised & edited

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(Assistant Professor in Physics)